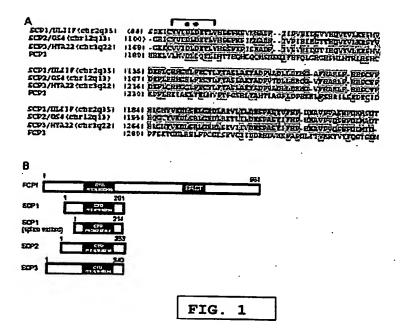
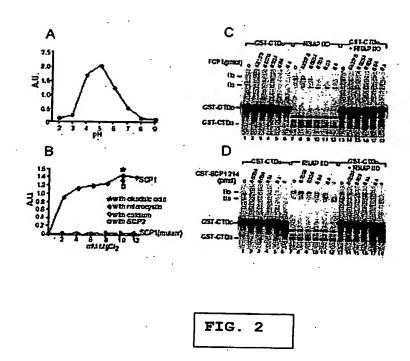
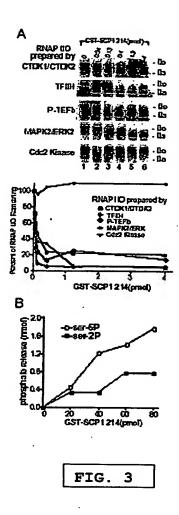
Table 1

	·	16 1			
Fly primers for	qRT-PCR				
Name of gene	5' sequence	3' sequence	Accession no.		
SCP1	5' atgggcgaactatacgagtgcgttc 3'	5' cttgtctgctggttcaacatgg 3'	CG5830		
GAPDH	5' atcaacgacaacttcgagatcgtcg 3'	5' gcggttggagtagccaaactcgttg 3'	CG1205 5		
nbosomal proteir	in 5' atgtcgctcttgcaaaaactaagc 3'	5' ttataggatatettegattttegge 3'	CG5497		
beta-actin	5' tgaagatcctcaccgagcgcggcta 3'	5' gaccggactcgtcatactcctgcttg 3'	NM 079486		
Na Channel II	5' cagctggtgcgggagtacggcttcc 3'	5' tgcgcagctcgcccatgtagacctg 3'	CG9071		
synapsin	5'gagctgtcgttgagctttggcg3'	5'cgcgtggattggggaagaaggtc3'	CG3985		
cholineAcetylTr nsferase	^a 5' actgggcctattactactggctc 3'	5'ccgtaaaaccgcgcgcattaaagt 3'	CG3284 8		
ELAV	5' caacgaagccgagcgagccatccag 3'	5' tggtcatggtcacgaatccgaatc 3'	CG4396		
beta-tubulin	5' gcaacaactgggccaagggtcattac 3'	5' cttggcatcgaacatctgctgggtcag 3'	CG9277		
Neurofilament H	I 5' gccttccaagagcacgacgtacaaag 3'	5' cgatcagaagtggatcgcggtcctta 3'	CG7421		
peptidyl-glycine oxygenase myosin-light- chain-kinase	5' etegecaat caagtacett gtgetge 3'	5' ccctggctgaagcagaacttcatg 3'	CG3832		
	5' ettegetegeaceteagaaacgate 3'	5' tatggcataaaaggtgtggccattc 3'	CG1915		
GCM nMDAR	5' caacggaactaacggccgctccgag 3' 5'ctcgccattgttctcctggtgg 3'	5' gttetegecategttgagatetge 3'	CG1224 5		
11.12.1 II.		5' cgtacatgaggtagaccctgga 3'.	CG14793		
Mouse Primers	for RT-PCR				
Name of gene	5' sequence	3' sequence	Accession no.		
SCP1	5' cggccgtcattactcagatcagcaagg 3' 5' tccaccaccctgtgttgctgta 3'	5' gcagtgaacagcacacattcaaagagct 3'	AY028804		
GAPDH	5 iccaccacccigigitgcigia 5	5' accacagtecatgecateae 3'	NM_008084		
ngn1	5'catctetgatetegactgeteeageag 3'	5' gggtcagagagtggtgatgccacagtg 3'	NM 010896		
beta-tubulin	5' tgccctcacccaaggtctctgacactgtgg 3'	5' cttgaacagctcctggatggcagtgctg 3'	NM 023716		
stra13	5'ctgtggccatggagggaaacagtggcttcc 3'	5'agaagtccaggagcagctgagggagcac 3'	NM_016665		
GAD1 nrsf	5'gcaaccgcaggcacgactgtttacggag 3'	5' agatgaccatccggaagaagttggccttgt 3'	NM_008077		
шэт	5' ccatcgcctgcgaaacctccccaggtaga 3'	5' agccaactcagetggactetetecagette 3'	NM 01 1 263		
Human Primers for ChIP assay					
Name of gene	5' sequence	3' sequence	Accession no.		
GAD1 promoter chr2q31	5' tgcggtttatattatcctgcacgccgggag 3'	5' caccggttcgagtccccggagaggatatc 3'	NT005403		
GAD1 3' gene chr2q31	5' ggagccctatgcagggtaagggaataa 3'	5' gggctttgatttttggagccaccttgtg 3'	NT005403		
GRIN 2A	5' aactatttctgggtcactccttagacac 3'	5' octogoaggaatgetttetantgentte 2'	NITO10202 :		
promoter chr16		5' gctgggaggaatgctttctaatgcatttg 3'	NT010393		
SCN2 promoter chr.2q23	5' ctggataagttactgaagagtgggctttgg 3'	5' cagacgacaagttacatgcaacatg 3'	NT005403		





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GST-SCP1 214pmol 2 CST-SCP1 214pmol 3 CST-SCP1 214p

FIG. 4

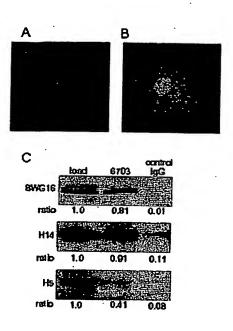


FIG. 5

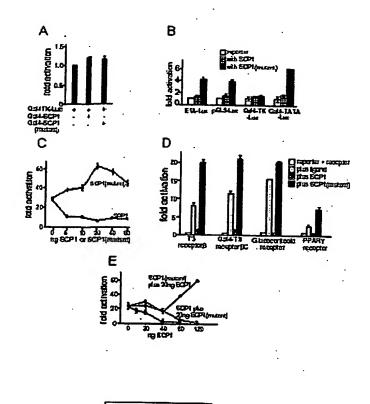


FIG.

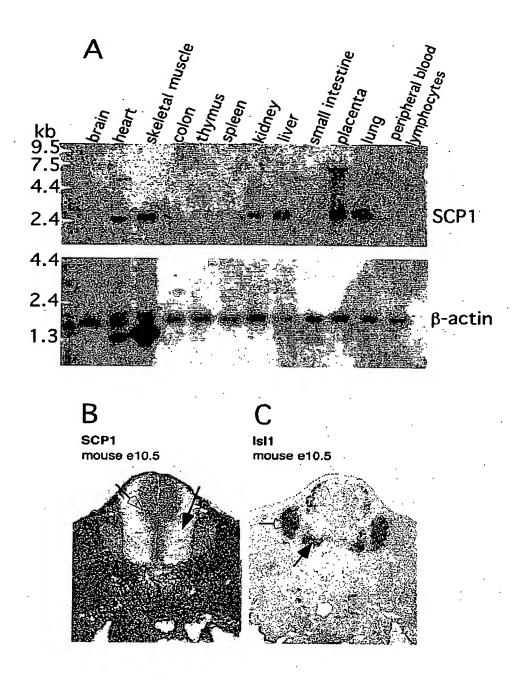
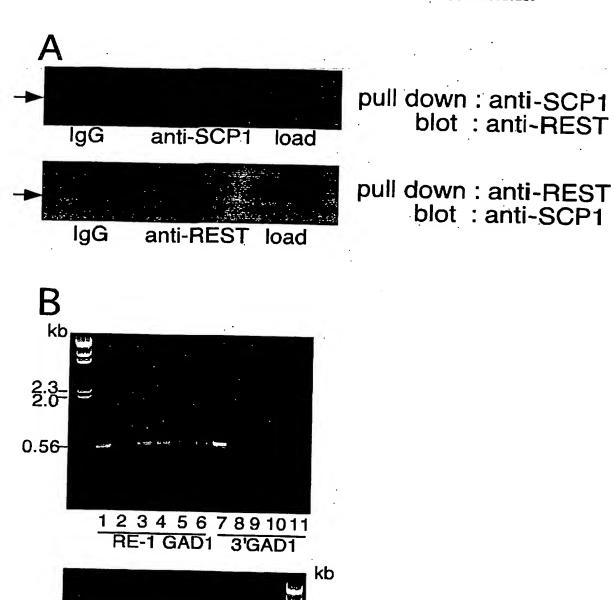
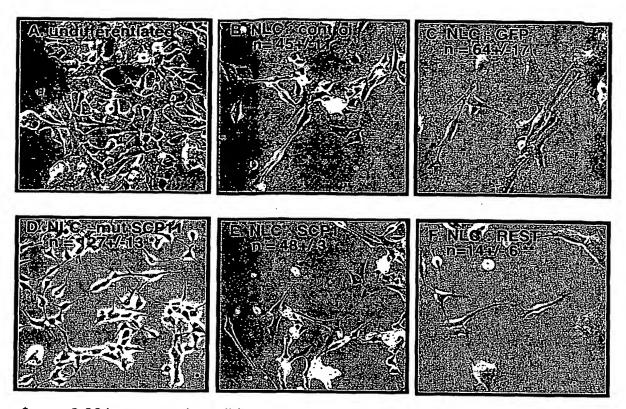


Figure 7



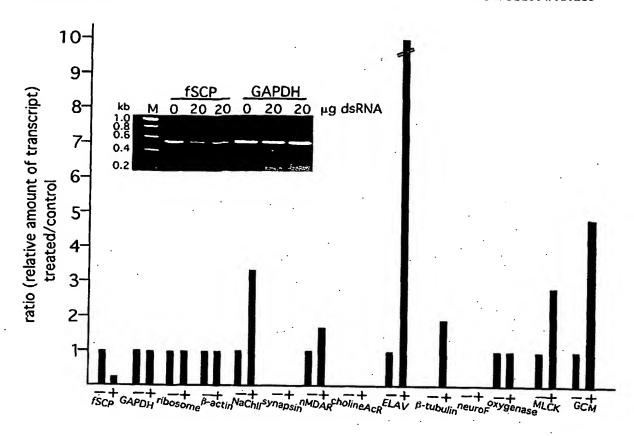
=2:8 -0.56 1 2 3 4 5 6 7 8 9 1011 GRIN2A SCN2A2

Figure 8



* p = 0.001 compared to wildtype ** p = 0.008 compared to wildtype

Figure 9



			
gene	٠	average Ct	std deviation
fSCP	control	21.1	0.18
	knockdown	23.3	0.22
GAPDH	control	17	0.1
	knockdown	17	0.19
ribosome	control knockdown	25 25	8:1\$
ß-actin	control	15	0.1
	knockdown	15	0.01
NaChii	control	25.1	0.22
	knockdown	23.8	0.2
synapsin	control	29.5	0.26
	knockdown	29.5	0.4
nMDAR	control	15.8	0.5
	knockdown	15.1	0.16
cholineAcR	control	29.4	0.76
	knockdown	31:2	0.96
ELAV	control	26.8	0.19
	knockdown	22	0.69
β-tubulin	control	2 <u>7.9</u>	0.67
	knockdown	25.1	0.35
neuroF	control	30.2	0.83
	knockdown	30.1	0.55
	control	23	0.46
	knockdown	23	2.16
\$	knockdown	17.8 16.5	0.21 0.68
GCM	control	23	0.42
	knockdown	21	1.16

Figure 10